

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

T5S, R3W, U.S.B.&M.

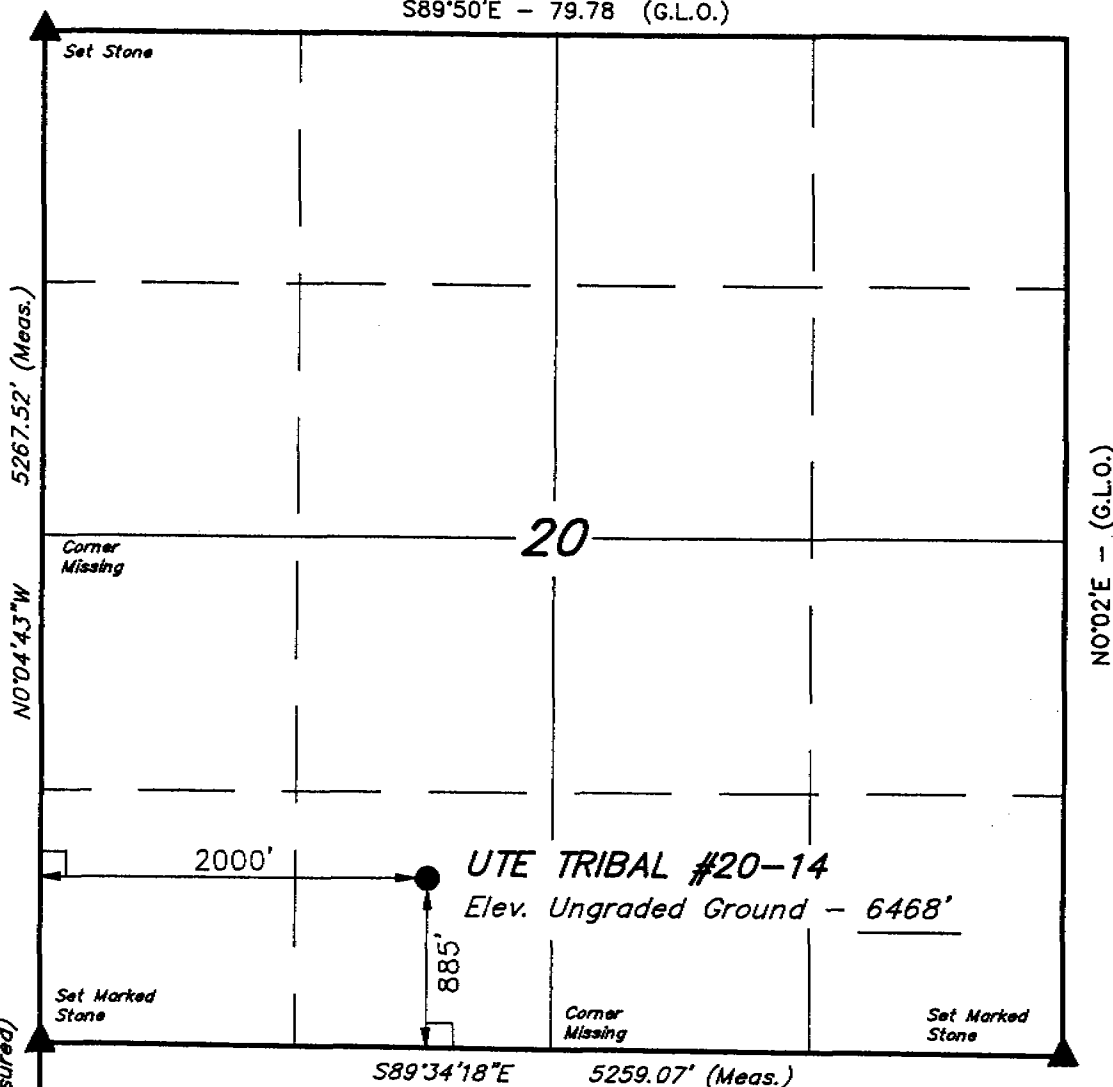
PETROGLYPH OPERATING CO., INC.

Well Location, UTE TRIBAL #20-14, located as shown in SE 1/4 SW 1/4 of Section 20, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

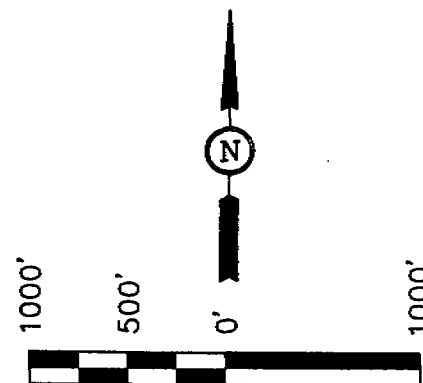
S89°50'E - 79.78 (G.L.O.)

BASIS OF ELEVATION

SPOT ELEVATION AT THE NW CORNER OF SECTION 29, T5S, R3W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6549 FEET.



N0°02'E - (G.L.O.)



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 181319
STATE OF UTAH

Revised: 9-9-97 C.B.T.

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

LEGEND:

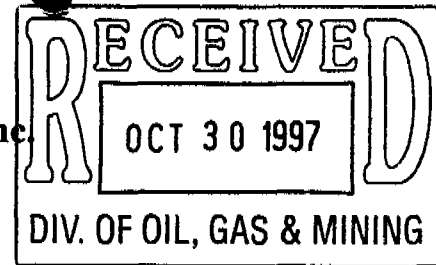
- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD,
- ▲ = SECTION CORNERS LOCATED.

SCALE 1" = 1000'	DATE SURVEYED: 6-8-94	DATE DRAWN: 6-21-94
PARTY B.B. S.D. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER HOT/WINDY	FILE PETROGLYPH OPERATING CO., INC.	

N0°01'E - G.L.O. (Basis of Bearings)
2635.62' - (Measured)

West 1/4
Cor. Sec 29
Set Marked
Stone

Petroglyph Operating Co., Inc.
P.O. Box 1839
Hutchinson, KS 67504-1839



October 14, 1997

Utah Division of Oil, Gas, & Mining
1594 West North Temple
Box 145801
Salt Lake City, UT 84114-5801

RE: APPLICATION FOR PERMIT TO DRILL
UTE TRIBAL #20-14
SE/SW, SEC. 20, T5S, R3W
DUCHESNE COUNTY, UTAH
LEASE NO. BIA 14-20-H62-3515
UTE TRIBAL LANDS

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter
P.O. Box 1910
Vernal, UT 84078
Phone # (801) 789-4120
Fax # (801) 789-1420

Sincerely,

A handwritten signature in cursive script, appearing to read "Ed Trotter".

Ed Trotter
Agent

Petroglyph Operating Co., Inc.

Attachments

/EHT/dmt

State of Utah
Division of Oil, Gas & Mining
1594 West North Temple
Box 145801
Salt Lake City, UT 84114-5801

October 28, 1997

RE: Application for Exception Well Location
Proposed Ute Tribal #20-14
Township 5 South, Range 3 West
Section 20: SE/4 SW/4
Duchesne County, Utah

Gentlemen;

Petroglyph Operating Company, Inc. (Petroglyph) respectfully requests administrative approval per R-649-3-3 to drill the Ute Tribal #20-14 a 6109' Green River test, at a location 855' FSL & 2000' FWL, SE/4 SW/4, Section 20, Township 5 South Range 3 West, Duchesne County, Utah.

The aforementioned footage is not a location at which a well could be drilled in compliance with the spacing order of this lease, which established 40 acre drilling units.

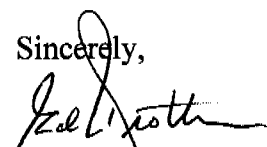
Enclosed is a topographic map which depicts the surface contour in the area of the subject location. Petroglyph believes the proposed exceptionally spaced location to be the preferred location from a construction standpoint. Also this location is preferred by the Bureau of Indian Affairs Resource Department and the Ute Indian Tribe, Energy and Minerals Department who regulate activities on this land.

Petroglyph Operating Company Inc. holds 100% of the operating rights underlying the subject drilling unit as well as drilling units to the north, south, east and west.

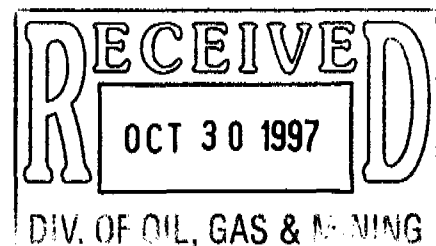
Petroglyph respectfully requests the Division of Oil, Gas and Mining Administratively grant this application for the exceptional well location at its earliest opportunity.

Please direct further correspondence and approval to myself at P.O. Box 1910, Vernal, Utah 84078, or phone me at 801-789-4120.

Sincerely,



Petroglyph Operating Company Inc.
Ed Trotter, Agent



T5S, R3W, U.S.B.&M.

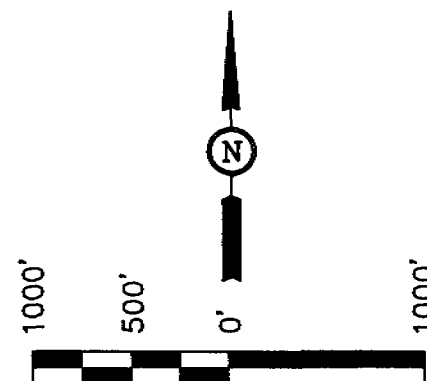
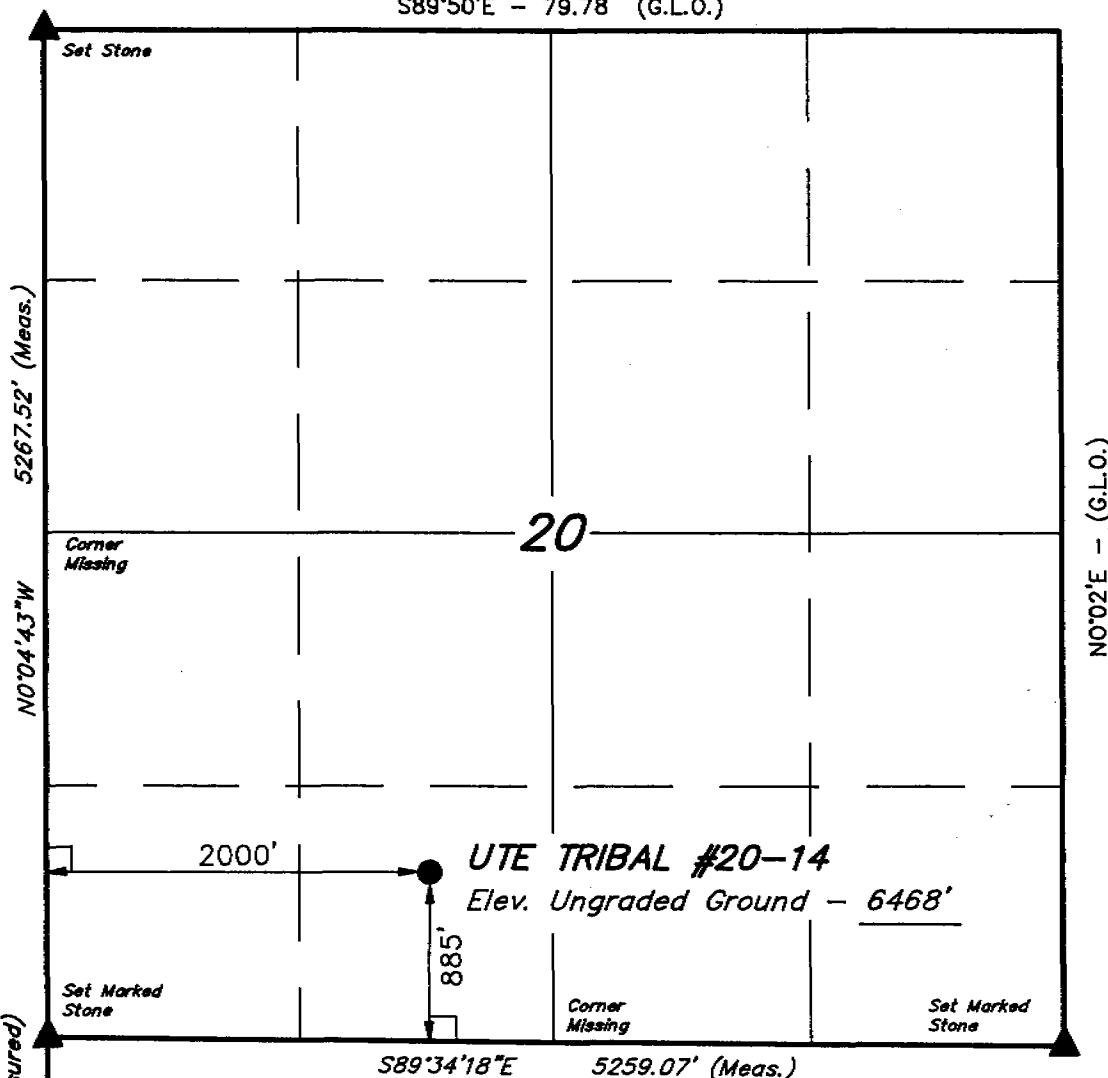
PETROGLYPH OPERATING CO., INC.

Well Location, UTE TRIBAL #20-14, located as shown in SE 1/4 SW 1/4 of Section 20, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

S89°50'E - 79.78 (G.L.O.)

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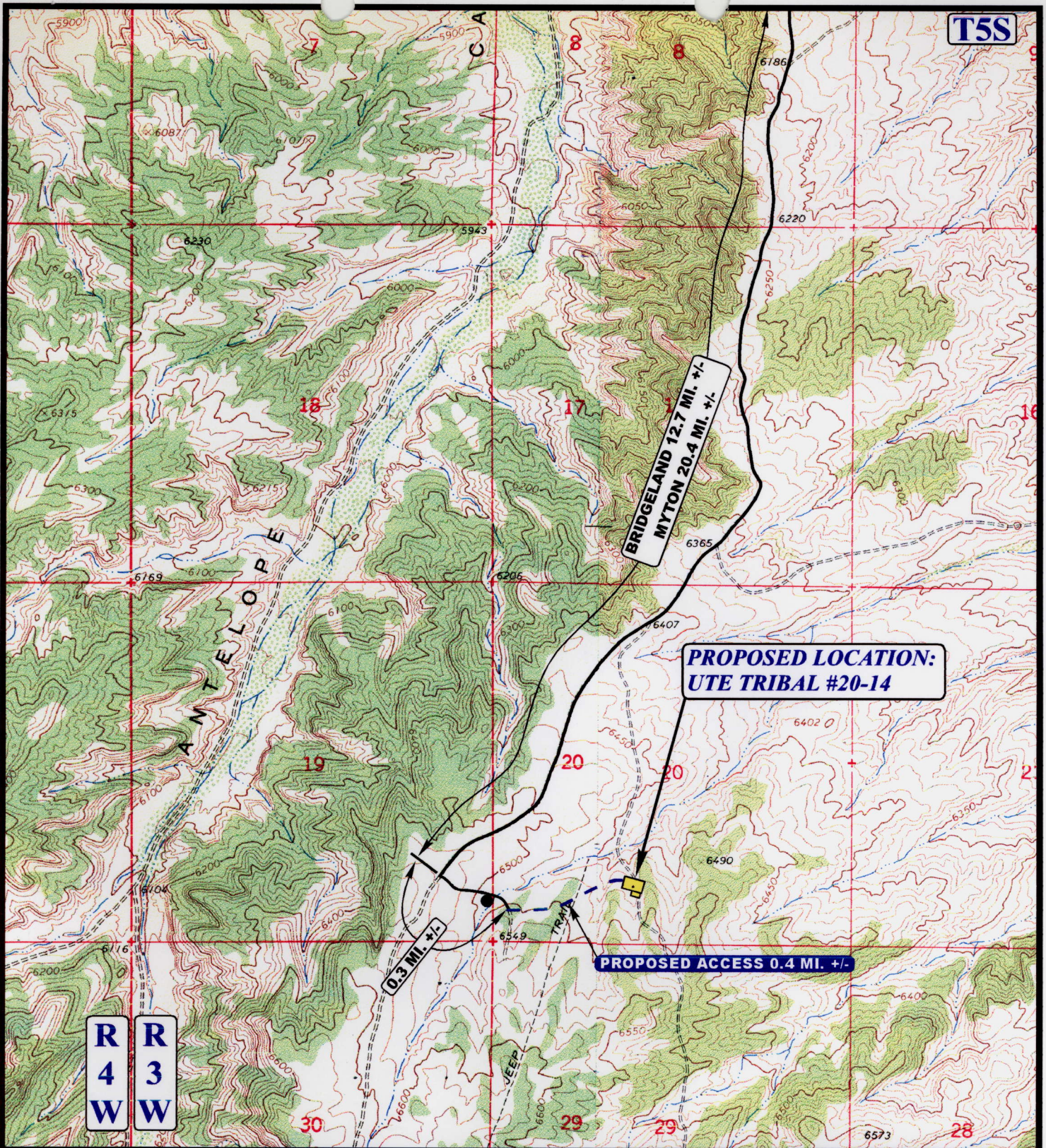
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WEATHER HOT/WINDY	FILE PETROGLYPH OPERATING CO., INC.	



LEGEND:

--- PROPOSED ACCESS ROAD
 — EXISTING ROAD



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #20-14
SECTION 20, T5S, R3W, U.S.B.&M.
885' FSL 2000' FWL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (801) 789-1017 * FAX (801) 789-1813
 Email: uels@easilink.com

TOPOGRAPHIC
MAP

9 4 97
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: D.COX REVISED: 00-00-00

B
TOPO

EIGHT POINT PLAN

UTE TRIBAL #20-14
SE/SW, SEC. 20, T5S R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2927.3	3550
"X" Marker	4500.3	1977
Douglas Creek	4640.3	1837
"B" Limestone	5024.3	1453
B/Castle Peak Limestone	5577.3	900
Basal Carbonate Limestone	5999.3	478
Total Depth	6109.3	368

Anticipated BHP 2000 psi

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4640.3	1837
Oil/Gas	B/Castle Peak	5577.3	900
Other mineral zones	N/A		

3. PRESSURE CONTROL EQUIPMENT : BOP Schematic Diagram attached.

4. CASING PROGRAM :

<u>HOLE SIZE INTERVAL</u>						<u>MINIMUM SAFETY FACTOR</u>		
						<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSILE</u>
12 1/4	0' - 250'	250'	8 5/8	24.0 #	J-55	1370 PSI	2950 PSI	263,000#
7 7/8	0' - 6109.3'	6109.3'	5 1/2	15.5 #	M-50	3650 PSI	4550 PSI	186,000#

All casing will be new or inspected.

EIGHT POINT PLAN

UTE TRIBAL #20-14
SE/SW, SEC. 20, T5S R3W
DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

INTERVAL

0' - 250'
250' - 4000'
4000' - TD
TD

MUD TYPE

Air
Air/Mist & Aerated Water
Air/3% KCL water or KCL substitute
Gel/polyacrylamide polymer w/5-10% LCM

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

6. VARIANCE REQUESTS:

- A. Petroglyph Operating Co., Inc. requests a variance to regulations requiring a straight run blooie line.
- B. Petroglyph Operating Co., Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

7. EVALUATION PROGRAM:

Logs: Mud Logging
Compensated Density-Compensated Neutron Log
Dual Laterolog - Micro-SFL
Numar (Magnetic Resonance Imaging Log)

T.D. to base of surface csg.
T.D. to base of surface csg.
T.D. to base of surface csg.
@ Geologists discretion

Cores: None Programmed
DST: None Programmed

Completion: To be submitted at a later date.

8. ABNORMAL CONDITIONS:

None anticipated.

EIGHT POINT PLAN

UTE TRIBAL #20-14
SE/SW, SEC. 20, T5S R3W
DUCHESNE COUNTY, UTAH

9. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

10. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

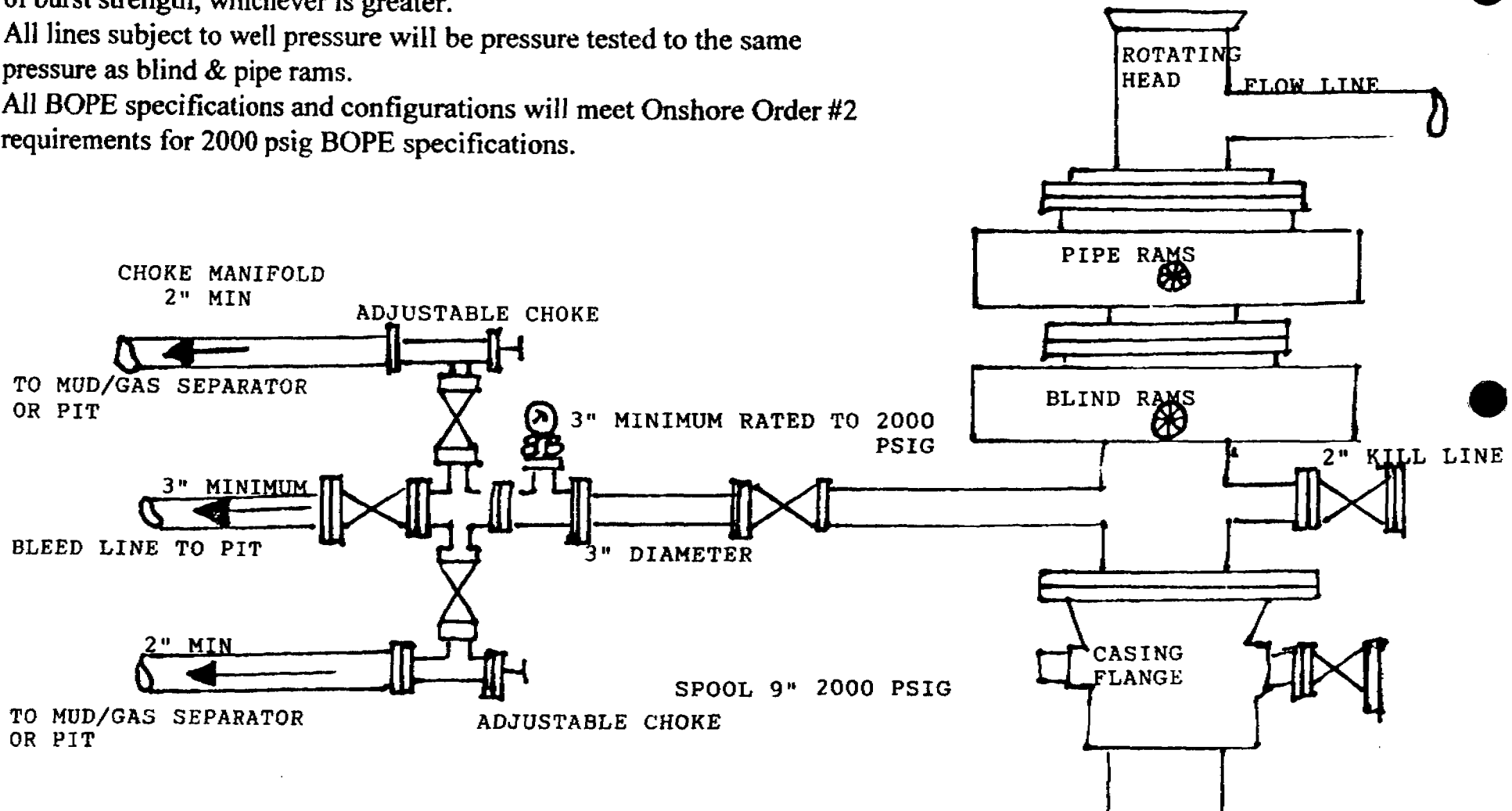
(Attachment: BOP Schematic Diagram)

2000 PSIG DIAGRAM

BOTH RAMS ARE 2000 PSIG RATED.
CASING FLANGE IS 9" 2000 PSIG RATED.
BOPE 9" 2000 PSIG

TESTING PROCEDURE:

1. BOPE 's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
2. Blind & Pipe rams will be tested to rated working pressure, 2000 psig
3. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
4. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 2000 psig BOPE specifications.



CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Co., Inc.
Well Name & Number: Ute Tribal #20-14
Lease Number: BIA 14-20-H62-3515
Location: 885' FSL & 2000' FWL, SE/SW, Sec. 20, T5S R3W
U.S.B.&M., Duchesne County, Utah
Surface Ownership: Ute Indian Tribe

NOTIFICATION REQUIREMENTS

Location Construction - forty-eight (48) hours prior to construction of
location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice - at least twenty-four (24) hours prior to spudding the
well.

Casing String and
Cementing - twenty-four (24) hours prior to running casing and
cementing all casing strings.

BOP and related
Equipment Tests - twenty-four (24) hours prior to running casing and
tests.

First Production
Notice - within five (5) business days after new well begins
or production resumes after well has been off
production for more than ninety (90) days.

For more specific details on notification requirements, please check the
Conditions of Approval for Notice To Drill and Surface Use Program.

THIRTEEN POINT SURFACE USE PROGRAM

1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing road.
- B. The proposed well site is located approximately 21.1 miles southwest of Myton, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

2. PLANNED ACCESS ROAD

- A. The access road will be approximately 0.4 miles in length. See attached TOPO Map "B".
- B. The access road has a 30 foot ROW w/18 foot running surface.
- C. Maximum grade on access road will be 8%
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. An 18" diameter x 30' long culvert will be installed in the drainage approximately 100' West of the location.
- G. The access road will be dirt surface.
- H. No gates, cattleguards or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall

include ditching, drainage, graveling, crowning, and capping the roadbed as necessary to provide a well-constructed safe road.

Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of- Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Co., Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION

- A. Water wells - None
 - B. Abandoned wells - None
 - C. Temporarily abandoned wells - 3*
 - D. Disposal wells - None.
 - E. Drilling wells - None.
 - F. Producing wells - 13*
 - G. Shut in wells - 1*
 - H. Injection wells - 1*
- (*See attached TOPO map "C" for location)

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. ON WELL PAD

- 1. Tank batteries - None
- 2. Production facilities-To be submitted later

3. Oil gathering lines - None
4. Gas gathering lines-None
5. Injection lines - None
6. Disposal lines - None
7. Surface pits - None

B. OFF WELL PAD

1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
2. A 4 1/2" OD steel above ground production pipeline will be laid approximately 2130' from proposed location to a point in the SE/SE of Section 19, T5S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing facility at the Ute Tribal #19-16 tank battery. Proposed pipeline crosses Ute Tribe lands, thus a Right-of-Way grant will be required. See attached TOPO Map D showing pipeline route.
3. Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.
4. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the Ute Tribal #19-16 location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of

installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The required paint color is Desert Brown.

5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE 1/4, Sec. 1, T 4S, R 5W Duchesne County, Utah (State water right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by Target Trucking.
- C. No water well will be drilled on lease.

6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of location.
- B. All construction material will come from Ute Tribal Land.
- C. No mineral materials will be required.

7. METHODS OF HANDLING WASTE DISPOSAL

A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.

5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on drilling rig to avoid leakage of oil to pit.
- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to reserve pit will be avoided by flaring them off in flare pit at time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

On BIA administered land:

All reserve pits will be lined with either native clay, commercial bentonite or plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit).

A 12 mill liner shall be installed in the reserve pit.

To protect the environment:

If the reserve pit is lined the operator will provide the BIA with a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements described by part II, Standards of Quality for Waters of the State, Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

To protect the environment (without a chemical analysis)
reserve pits will be constructed so as not to leak, break, or allow discharge of liquids.

___ Storage tanks will be used if drill sites are located on tribal irrigable land, flood plains, or on lands under crop production. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

8. ANCILLARY FACILITIES

- A. No airstrips or camps are planned for this well.

9. WELL SITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills & cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation parking areas, and access road.

The reserve pit will be located on the South side of the location.

The flare pit will be located downwind of the prevailing wind direction on the South side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the South side west of the pit.

Access to the well pad will be from the West.

N/A Diversion ditch(es) shall be constructed on the _____ side of the location (above/below) the cut slope, draining to the _____

N/A Soil compacted earthen berm(s) shall be placed on the _____ side(s) of the location between the _____

N/A The drainage(s) shall be diverted around the sides of the well pad location.

N/A The reserve pit and/or pad locations shall be constructed long and narrow for topographic reasons _____

X Corner No. 4 will be rounded off to minimize excavation.

FENCING REQUIREMENTS

All pits will be fenced according to the following minimum standards:

- A. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16'.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly travelled. If the well is a producer, the cattleguards (shall/ shall not) be permanently mounted on concrete bases. Prior to a new road, crossing any fence located on federal land, or any fence between federal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer

him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

10. PLANS FOR RESTORATION OF SURFACE

A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion (weather permitting).

Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

B. DRY HOLE/ABANDONED LOCATION

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and BIA will attach the appropriate surface rehabilitation conditions of approval.

ON BIA Administered lands:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, (c) ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time

of abandonment.

11. SURFACE OWNERSHIP

Access road: Ute Indian Tribe

Location: Ute Indian Tribe

12. OTHER INFORMATION

A. Petroglyph Operating Co., Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:
-whether the materials appear eligible for the National Register of historic Places;

the mitigation measures the operator will likely have to undertake before the site can be used.

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

B. As operator, Petroglyph Operating Co., Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable

facilities. A list of noxious weeds will be obtained from the BIA, or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

- C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

On BIA administered land:

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way authorization". All operators, subcontractors, vendors, and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, (c) that firearms are prohibited to all non-Ute Tribal members (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted. All well site locations on the Uintah and Ouray Indian Reservation

will have an appropriate sign indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (either footage or the quarter-quarter section, the section, township, and range).

Additional Surface Stipulations

N/A No construction or drilling activities shall be conducted between _____ and _____ because of _____

N/A No surface occupancy will be allowed within 1,000 feet of any sage grouse strutting ground.

N/A No construction or exploration activities are permitted within 1.5 mile radius of sage grouse strutting grounds from April 1 to June 30.

N/A There shall be no surface disturbance within 600 feet of live water (includes stock tanks, springs, and guzzlers).

N/A No cottonwood trees will be removed or damaged.

N/A Pond will be constructed according to BLM specifications approximately _____ ft. _____ of the location, as flagged on onsite.

LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

PERMITTING

Ed Trotter
1620 West 750 North
Vernal UT 84078
Telephone # (801)789-4120
Fax # (801) 789-1420

OPERATIONS

Vince Guinn
P.O. Box 607
Roosevelt, UT 84066
(801) 722-2531
Fax # (801) 722-9145

All lease/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph Operating Co., Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the

field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The BIA Office shall be notified upon site completion prior to moving on the drilling rig.

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

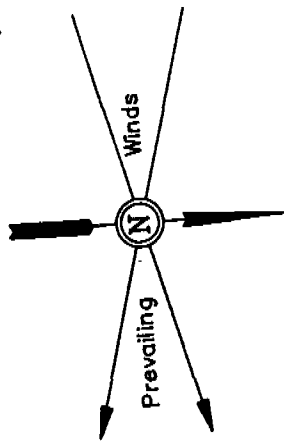
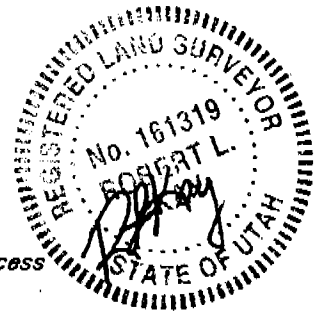
10-23-97
Date

Ed Groth

PETROGLYPH OPERATING CO., INC.

LOCATION LAYOUT FOR

UTE TRIBAL #20-14
SECTION 20, T5S, R3W, U.S.B.&M.
885' FSL 2000' FWL



SCALE: 1" = 50'
DATE: 9-9-97
Drawn By: C.B.T.

NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

FLARE PIT

Approx. Top of Cut Slope

NOTE: Pit Capacity W/2' of Freeboard is ±4,600 Bbls.

Reserve Pit Backfill & Spoils Stockpile

10' WIDE BENCH

RESERVE PITS (8' Deep)

1 1/2:1 Slope

Sta. 0+67

El. 70.6'

C-3.3'

El. 75.4'

C-8.1'

C-5.5'

El. 72.8'

C-2.5'

El. 69.8'

F-5.5'

El. 61.8'

Sta. 2+90

Approx. Toe of Fill Slope

Sta. 1+65

F-5.6'

El. 61.7'

Sta. 0+00

C-2.0'

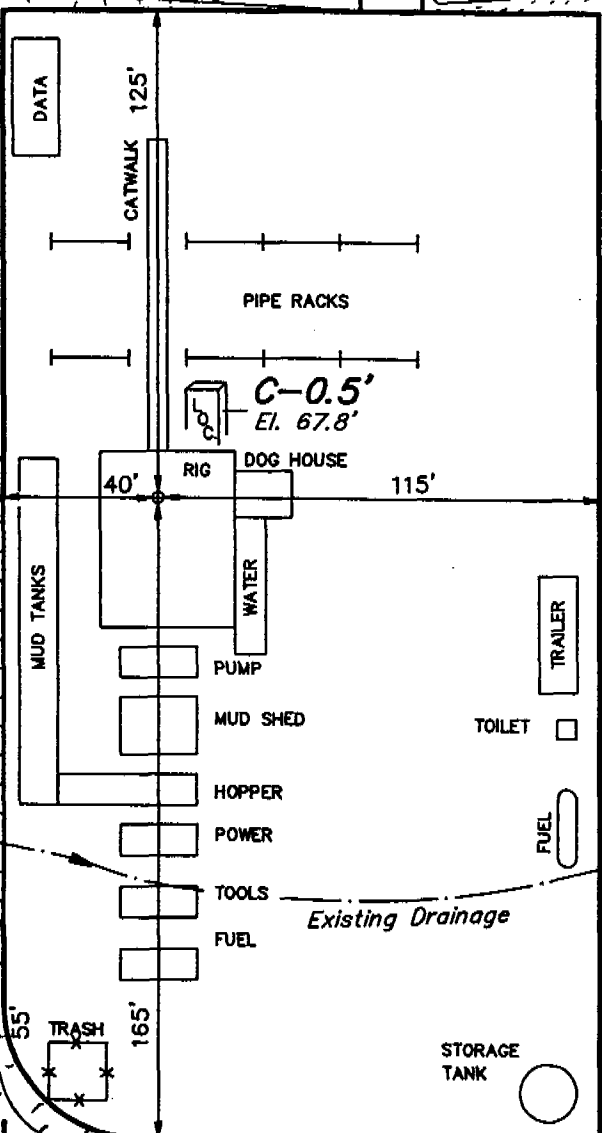
El. 69.3'

C-7.0'

El. 74.3'

Construct Diversion Ditch

Proposed Access Road



Elev. Ungraded Ground at Location Stake = 6467.8'

Elev. Graded Ground at Location Stake = 6467.3'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

PETROGLYPH OPERATING CO., INC.

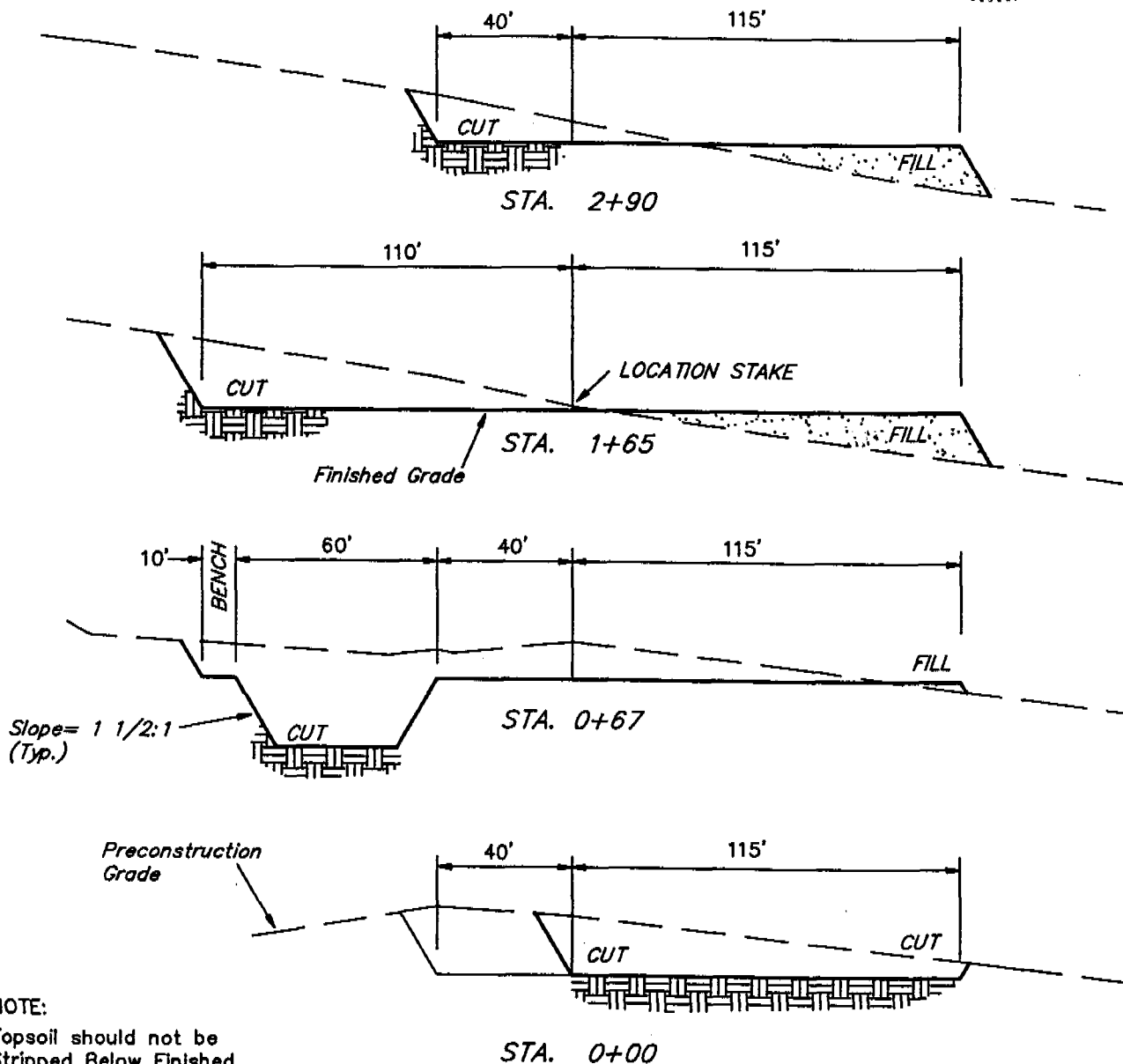
TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #20-14
SECTION 20, T5S, R3W, U.S.B.&M.
885' FSL 2000' FWL



1" = 20'
X-Section
Scale
1" = 50'

DATE: 9-9-97
Drawn By: C.B.T.



NOTE:

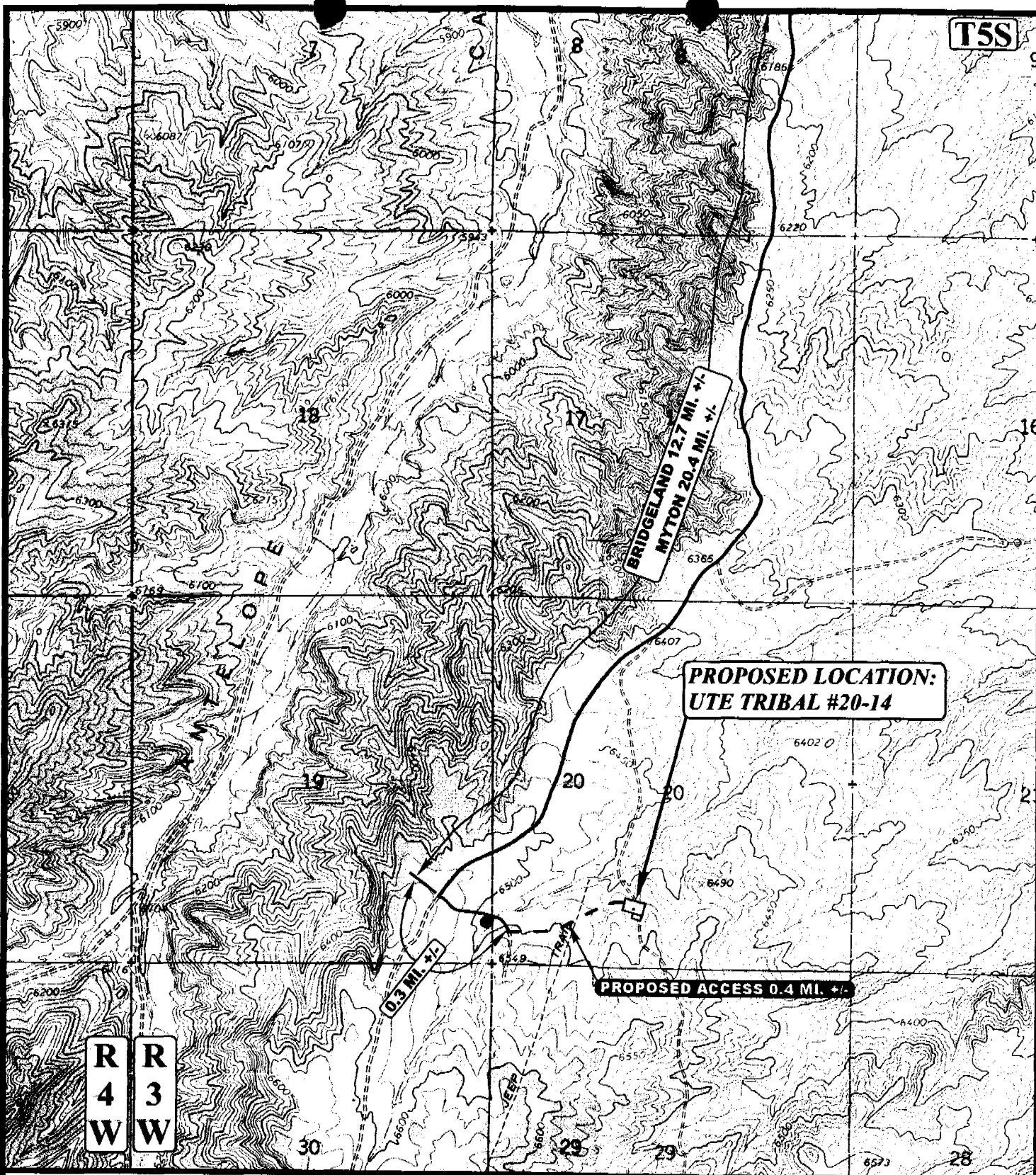
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

(12") Topsoil Stripping = 1,910 Cu. Yds.
Remaining Location = 4,320 Cu. Yds.
TOTAL CUT = 6,230 CU.YDS.
FILL = 2,730 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION = 3,360 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 2,610 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation) = 750 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



LEGEND:

----- PROPOSED ACCESS ROAD
 _____ EXISTING ROAD



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #20-14
SECTION 20, T5S, R3W, U.S.B.&M.
885' FSL 2000' FWL

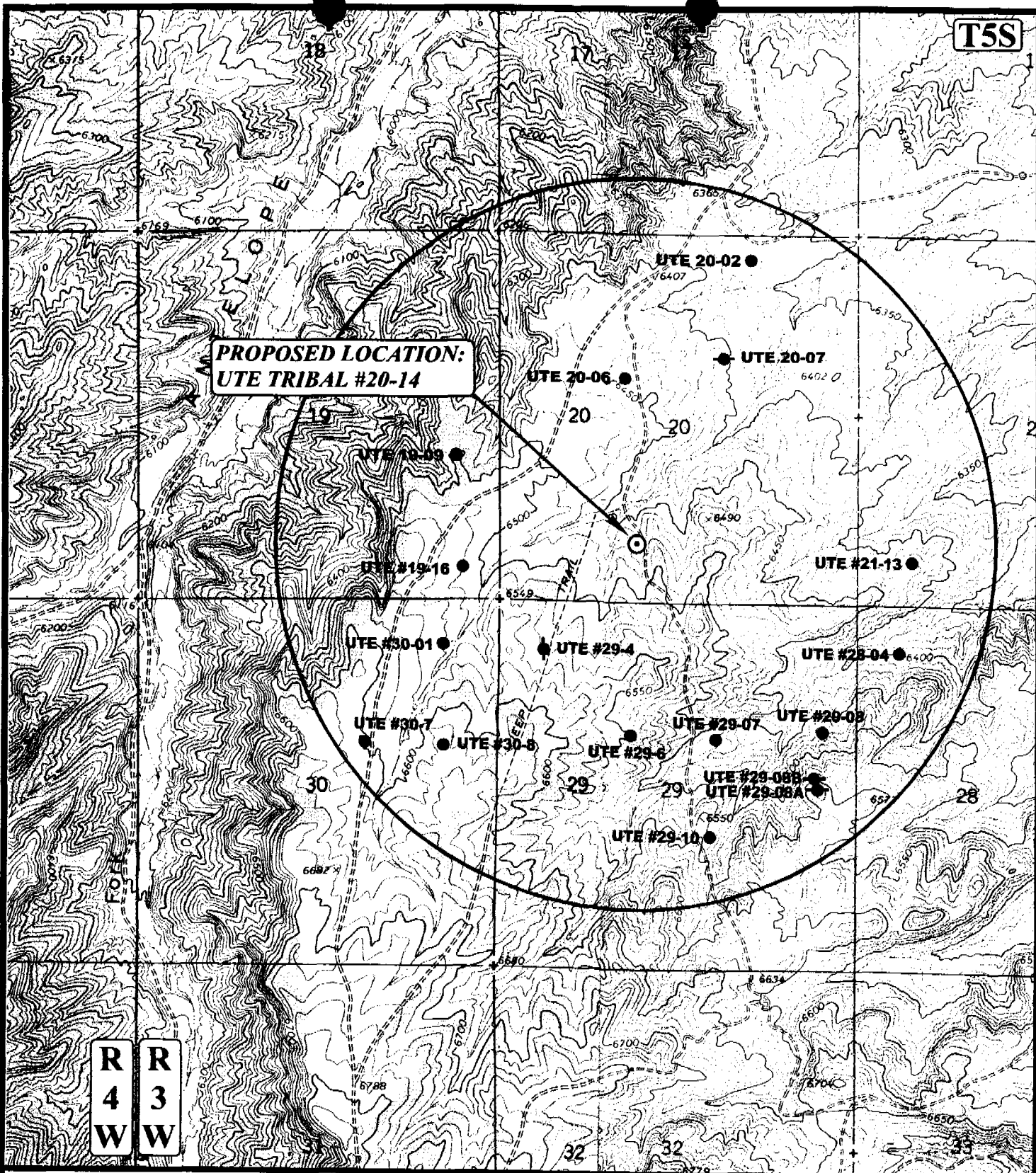
TOPOGRAPHIC **9** **4** **97**
MAP MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: D.COX REVISED: 00-00-00

B
 TOPO

U
E
L
S

Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (801) 789-1017 * FAX (801) 789-1813
 Email: uels@casilink.com



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #20-14
SECTION 20, T5S, R3W, U.S.B.&M.
885' FSL 2000' FWL



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 Email: uels@eastlink.com

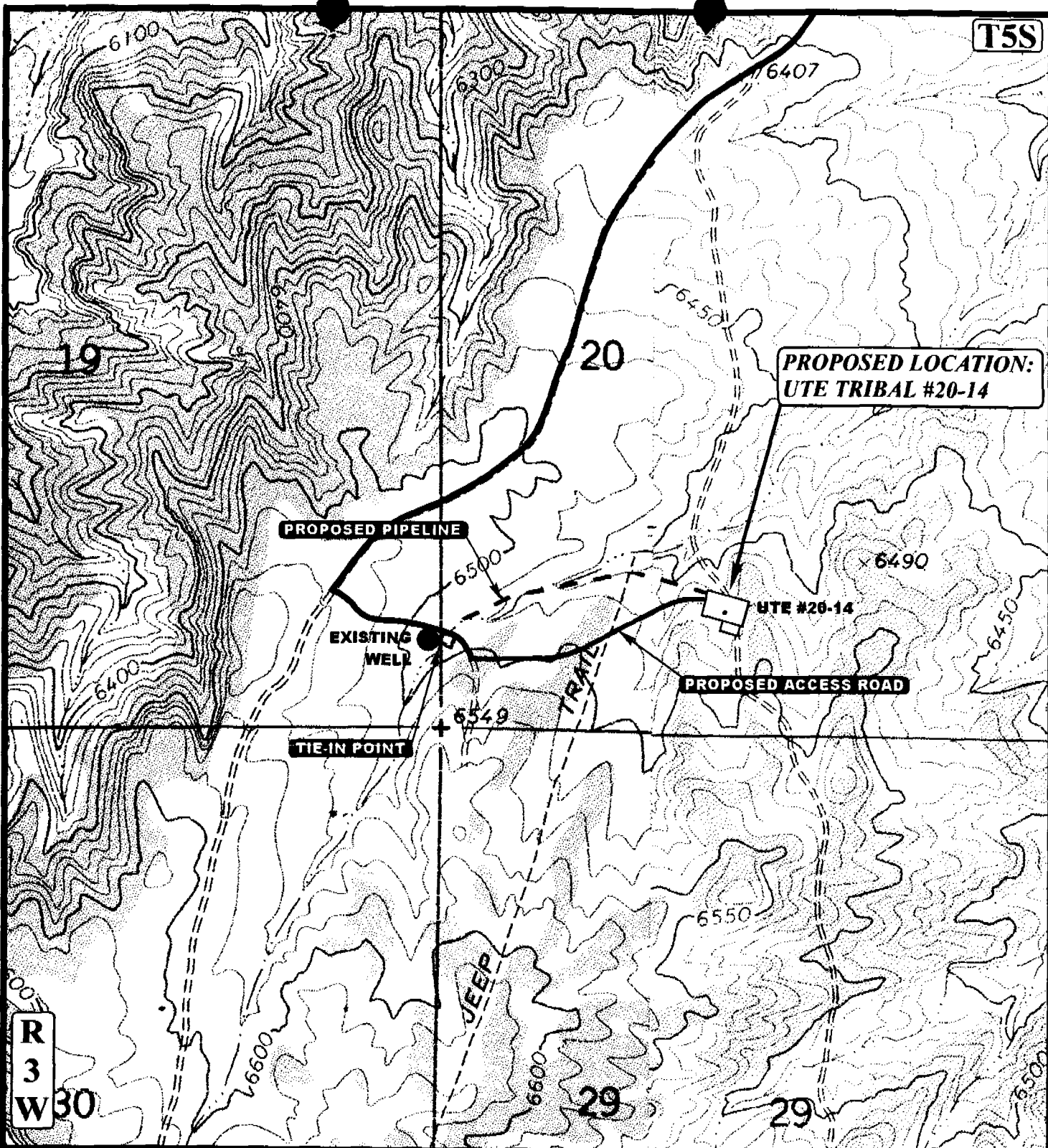


**TOPOGRAPHIC
MAP**

9 4 97
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: D.COX REVISED: 00-00-00

**C
TOPO**



APPROXIMATE TOTAL PIPELINE DISTANCE = 2130' +/-

LEGEND:

- — — — — EXISTING PIPELINE
- - - - - PROPOSED PIPELINE
- — — — — PROPOSED ACCESS



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #20-14

SECTION 20, T5S, R3W, U.S.B.&M.

885' FSL 2000' FWL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (801) 789-1017 * FAX (801) 789-1813
 Email: uels@easlink.com

**TOPOGRAPHIC
MAP**

9 4 97
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: D.COX REVISED: 00-00-00

**D
TOPO**

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/30/97

API NO. ASSIGNED: 43-013-31982

WELL NAME: UTE TRIBAL 20-14
OPERATOR: PETROGLYPH OPERATING (N3800)

PROPOSED LOCATION:

SESW 20 - T05S - R03W
SURFACE: 0885-FSL-2000-FWL
BOTTOM: 0885-FSL-2000-FWL
DUCHESNE COUNTY
ANTELOPE CREEK FIELD (060)

LEASE TYPE: IND
LEASE NUMBER: 14-20-H62-3515

PROPOSED PRODUCING FORMATION: GRRV

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

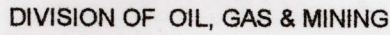
☒ Plat
☒ Bond: Federal ☒ State ☐ Fee ☐
(Number 4556)
☒ Potash (Y/N)
☒ Oil shale (Y/N)
☒ Water permit
(Number 43-10152)
☒ RDCC Review (Y/N)
(Date:)

LOCATION AND SITING:

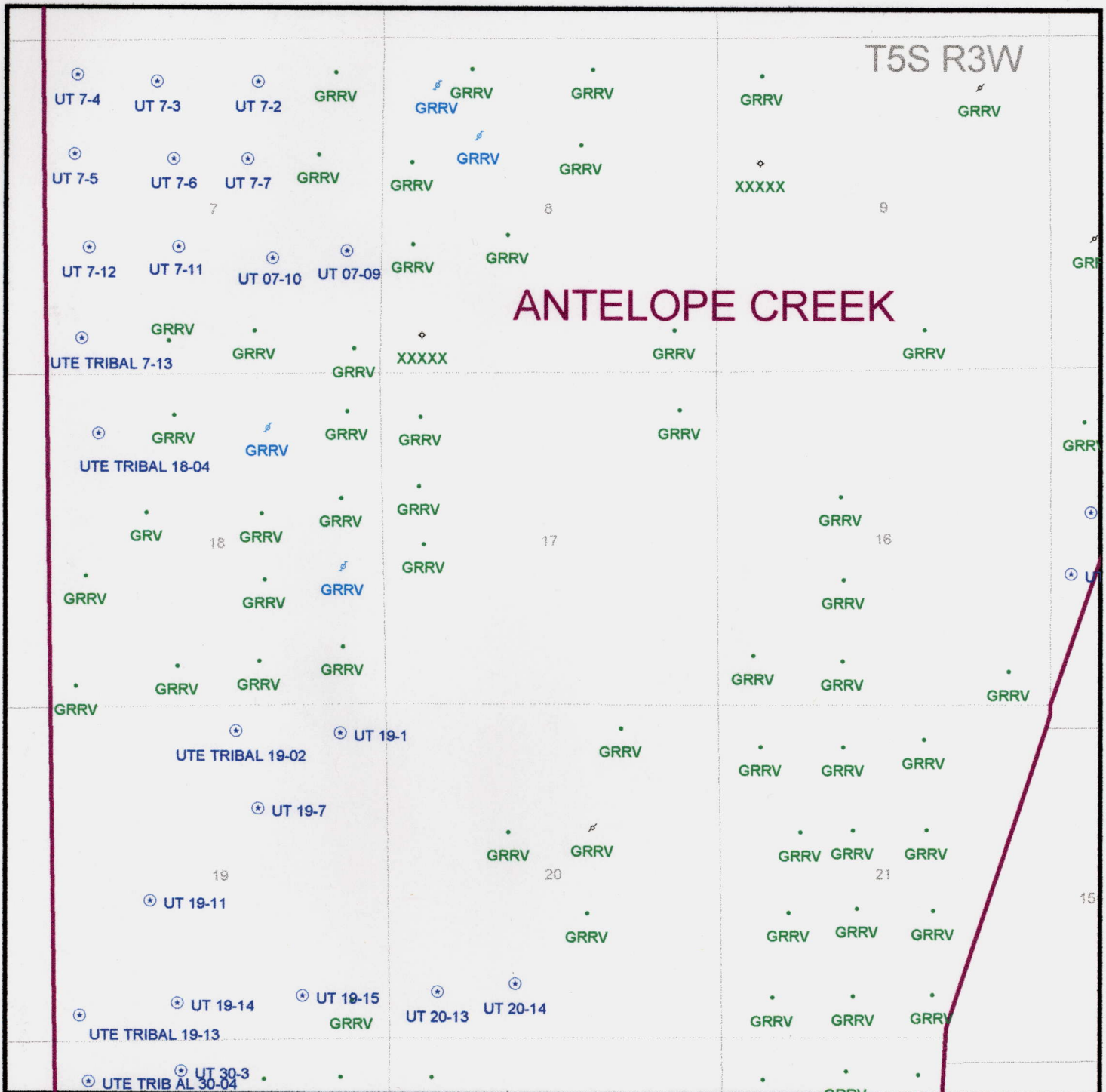
___ R649-2-3. Unit: ___
☒ R649-3-2. General.
___ R649-3-3. Exception.
___ Drilling Unit.
___ Board Cause no: ___
___ Date: ___

COMMENTS: Conf. Status req.

STIPULATIONS:



COUNTY: DUCHESNE UAC: R649-3-2 & R649-3-3



DATE PREPARED:
31-OCT-1997



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

January 8, 1998

Petroglyph Operating Company
P.O. Box 607
Roosevelt, Utah 84066

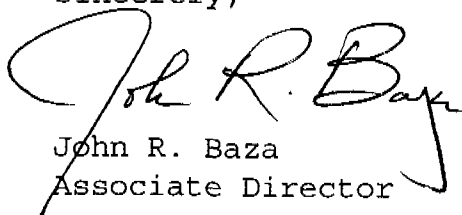
Re: Ute Tribal 20-14, 885' FSL, 2000' FWL, SE SW,
Sec. 20, T. 5 S., R. 3 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31982.

Sincerely,


John R. Baza
Associate Director

ls

Enclosures

cc: Duchesne County Assessor

Bureau of Land Management, Vernal District Office

Operator: Petroglyph Operating Company
Well Name & Number: Ute Tribal 20-14
API Number: 43-013-31982
Lease: 14-20-H62-3515
Location: SE SW Sec. 20 T. 5 S. R. 3 W.

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact John R. Baza (801)538-5334.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

PETROGLYPH OPERATING COMPANY, INC.

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 607, ROOSEVELT, UTAH 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface

885' FSL & 2000' FWL SE/SW

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

21.1 MILES SOUTHWEST OF MYTON, UTAH

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 885' ±
(Also to nearest drilg. unit line, if any)

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL 8018. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

6109.3'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6467.3' GRADED GROUND

22. APPROX. DATE WORK WILL START*

OCTOBER 1997

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT *
12 1/4	8 5/8	24.0#	250'	135 sx class "G" + 2% CaCl ₂
5 1/2	5 1/2	15.5#	6109.3'	+ 1/4 #/sx celloflake.
				50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONE OF INTEREST (+ 10% EXCESS) LIGHT CEMENT (11 PPG+) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (5% EXCESS).

RECEIVED
JAN 20 1998

CONFIDENTIAL

DIV. OF OIL, GAS & MINING

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED
OPERATOR OF THE SUBJECT WELL UNDER BOND #4556.pc: Utah Division of Oil, Gas, and Mining
Bureau of Indian Affairs, Fort Duchesne, Utah
Ute Tribe, Fort Duchesne, UtahRECEIVED
OCT 28 1997

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE AGENT FOR PETROGLYPH

DATE 10-23-97

(This space for Federal or State office use)

PERMIT NO.

NOTICE OF APPROVAL

APPROVAL DATE

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPYApplication approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

Assistant Field Manager
Mineral Resources

DATE

JAN 08 1998

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations or to any matter within its jurisdiction.

RECEIVED

DEC 23 1997

UNITED STATES GOVERNMENT

memorandum

DATE: December 16, 1997

REPLY TO
ATTN OF:

Acting Superintendent, Uintah & Ouray Agency

SUBJECT:

APD Concurrence Letter for PETROGLYPH OPERATING CO.

TO:

Bureau of Land Management, Vernal District Office
Attention: Minerals and Mining Division



JAN 03 1998

We recommend approval of the Application for Permit to Drill on the wells listed below.

SECTION 20, TOWNSHIP 5 SOUTH RANGE 3 WEST, USB&M	
Ute Tribal 20-13, SWSW	Ute Tribal 20-14, SESW

Each location will include two right-of-ways with the following:

- 1) 75 foot corridor right of way to include the following:
 - a) One buried 3" steel oil pipeline.
 - b) One buried 3" poly water pipeline
 - c) One buried 3" poly gas pipeline
 - d) One buried 6" steel water pipeline
 - e) One surface 4 1/2" steel production pipeline
 - f) 4" production pipeline
- 2) 30 foot access road

Based on available information received on September 30, 1997 and December 15, 1997, we cleared the proposed location in the following areas of environmental impact.

YES ☒ NO ☐ Listed threatened or endangered species
 YES ☒ NO ☐ Critical wildlife habitat
 YES ☒ NO ☐ Archaeological or cultural resources
 YES ☐ NO ☐ Air quality aspects (to be used only if
 Project is in or adjacent to a Class I area

Enclosed a copy of the Bureau of Indian Affairs, Environmental Analysis Item 6.0 for Mitigation Stipulations.

REMARKS: The Ute Tribe Energy and Minerals Department is recommending the following criteria to be adhered during all phases of construction.

1. The Ute Tribe Energy and Minerals Dept. is to be notified 48 hours prior to construction, as a Tribal Technician is to monitor construction.

2. 75 foot corridor rights of way shall be granted with the following:

- a) Buried pipelines shall be a minimum of 3 feet below soil surface.
 - b) Surface pipelines shall be limited to 13 feet wide.
 - c) Buried pipelines shall be limited to 15 feet wide.
3. Pipelines adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Additional pipelines shall be parallel to each other, as safety requirements will allow.
 4. Access roads shall be limited to 30 feet.
 5. Petroglyph Operating Company will assure the Ute Tribe that any/all contractors and sub-contractors have acquired a Tribal Business License and have an access permits prior to construction.
 6. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.
 7. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
 8. The personnel from the Ute Energy and Minerals Department should be consulted if cultural remains from subsurface deposits be exposed or identified during construction.
 9. All mitigative stipulations contained in the Bureau of Indian Affairs site specific Environmental Analysis (EA), will be strictly adhered.
 10. Upon completion of Application of Right-of-way, the Ute Tribe Energy and Minerals Department, will be notified by Petroglyph Operating Company, so that a Tribal Technician can verify Affidavit of Completions.

If you have any questions in regards to the above, please feel free to contact us (801) 722-4310.

Richard L. Ortiz

**SITE SPECIFIC
ENVIRONMENTAL ASSESSMENT**

1.0 PROPOSED ACTION

Petroglyph Operating Co., Inc. is proposing to drill oil well #20-14 and construct pipelines, and an access road. This is a site specific Environmental Assessment Tierd off from the Antelope Creek Oil & Gas Field Environmental Assessment prepared by the Bureau of Indian Affairs dated December, 1994.

2.0 ALTERNATIVE ACTIONS

- A. ALTERNATIVE CONSIDERED: The proposed action is the preferred alternative.
- B. NO ACTION: Under the no action alternative the proposed action would not be implemented.
- C. OTHER: NA

3.0 PERMITTEE/LOCATION

- A. Permittee- Petroglyph Operating Co., Inc.
- B. Date 9-22-97
- C. Well number- 20-14
- D. Right-of-way- Access road R\W approx. 1495.67 feet.
- E. Corridor R/W- 2133.13 feet.
- F. Site location- SESW, Section 20, T5S, R3W, USB&M.

4.0 SITE SPECIFIC SURVEY

A. SITE DESCRIPTION

- 1. Elevation (feet) 6468
- 2. Annual precipitation (inches)- 10-12
- 3. Topography- rolling hills
- 4. Soil- The soil texture is (0 to 6") gravelly loam

B. VEGETATION

- 1. Habitat type is upland shrub.
- 2. Percent Ground Cover- estimated to be 40%.
- 3. Vegetation consists of approximately 30% grasses, 60% shrubs, 10% forbs. The main variety of grasses are squirrel tail, Indian ricegrass, poa, needle & thread, bluebunch wheat, galleta, and blue grama. Forbs are astragalus, mustard, lambs quarter, globemallow, buck wheat, flox, daisy, Indian paint brush, & annuals. Shrubs consist of black sagebrush, fringe sage, bud sage, pygmy sage, prickly pear, winterfat, ~~shadscale~~, scale,

snakeweed, manless greasewood, mahogany, greasewood, rabbit brush, pygmy sage.

4. Observed Threatened & Endangered species: None.
5. Potential For Threatened & Endangered species: Slight
7. Observed Noxious Weeds: None

8. AFFECTED ENVIRONMENTAL

1. There are no surface damages as a result of the initial survey.

4.1 WILDLIFE

A. POTENTIAL SITE UTILIZATION

1. Big Game-The area is used throughout the year by mule deer, elk, and antelope. (elk & mule deer use this area most during winter months.)
2. Small Game-The area is used by cottontail rabbit.
3. Raptor- Various species of raptors use this area for habitat. Raptors which are observed using the area are Golden eagles, Redtail hawk, & Kestrel. Ferruginous hawk hunt in the area and there is an active nest located approximately 1/2 miles east of this site in Section 20, T5S, R3W, USB&M.
5. Non-Game Wildlife- Animal species which have been observed using this area are black tail jack rabbit, coyote, fox, badger, and various species of reptiles, and song birds.
6. Threatened & Endangered Species: No T&E species are reported using the area of this project.

4.2 PRESENT SITE USE

A. USAGE

	<u>acres</u>
Rangeland	6.13
Irrigable land	0
Woodland	0
Non-Irrigable land	6.13
Commercial timber	0
Floodplain	0
Wetland	0
Riparian	0
Other:	0

4.3 CULTURAL RESOURCES

A. CULTURAL SURVEY

Cultural Resource Surveys were performed by James A. Truesdale, an Independent Archaeologist.

5.0 ENVIRONMENTAL IMPACTS

A. SURFACE ALTERATIONS

	<u>acres</u>
1. Access road	1.03
2. Well site	1.43
3. Pipeline right-of-way	0.00
4. Corridor right-of-way	3.67
5. Total area disturbed	6.13

B. VEGETATION/LANDSCAPE

1. Production loss (AUM's)/year: 0.40
2. Permanent scar on landscape: Yes x No
3. Potential impacts to Threatened & Endangered species:
Yes No X

C. SOIL/RANGE/WATERSHED

There will be an increase in soil erosion from wind and water. There will not be any possible point source of water pollution.

The area is presently used as rangeland. In recent years the area has been permitted for livestock grazing, but at the present time no permits have been issued for the area. This project will reduce livestock grazing by approximately 0.40 AUM/year.

The area is not used as irrigated cropland and a water right has not been designated for the area.

D. WILDLIFE/THREATENED & ENDANGERED SPECIES

There will be an insignificant reduction of wildlife habitat and grazing for livestock. There will also be an increase in wildlife disturbance and poaching resulting from the additional traffic and people using the area.

There are no known impacts to Threatened or Endangered species but is important habitat for the Ferruginous hawk. The area is important winter range for big game.

Ferruginous Hawks use this area for nesting and hunting. There is an nest in Section 20.

6.0 MITIGATION STIPULATIONS

A. VEGETATION/LANDSCAPE

1. Before the site is abandoned the company will be required to restore the well site and right-of-ways to near their original state. The disturbed area will be reseeded with desirable perennial vegetation.
2. Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

B. SOILS/RANGE/WATERSHEDS

1. Soil erosion will be mitigated by reseeding all disturbed areas.

2. SURFACE PIPELINES

Surface pipelines will be constructed to lay on the soil surface, and the right-of-way will not be bladed or cleared of vegetation.

Where surface pipelines do not parallel roads but cross country between stations, they shall be welded in place at wellsites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.

3. BURIED PIPELINES

Buried pipelines shall be buried a minimum of 3.0 feet below the soil surface. After construction of the pipeline is completed the disturbed area of the right-of-way shall be contoured to blend into the natural landscape, and it shall be reseeded with desirable vegetation.

Between September 15 and November 1 of the year following pipeline construction all disturbed areas shall be reseeded with perennial vegetation according to BIA, or Ute Tribe specifications.

4. CORRIDOR RIGHT-OF-WAY

A 75 foot wide corridor pipeline right-of-way will be used for, surface pipelines, buried pipelines.

5. ACCESS ROADS

Although the access road rights-of-way is 30 feet, the constructed travel width of the access road shall be

limited to 22 feet, except it may be wider where sharp curves, or intersections are required.

6. DRILLING SYSTEM

An open drilling system will be used. Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the surplus oil and mud, etc will be buried a minimum of 3.0 feet below the surface of the soil.

7. PRODUCTION SYSTEM

A closed production system will be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

8. FIREWOOD

Firewood shall be stockpiled at convenient locations near the wellsite and along the access road.

C. WILDLIFE/VEGETATION/THREATENED & ENDANGERED SPECIES

The operator, their employees, sub-contractor, and representatives shall not carry firearms on their person or in their vehicles while working on Indian lands.

Because the wellsite is located more than 1/2 mile from a Ferruginous hawk nest this wellsite can be constructed and drilled at any time of the year.

D. CULTURAL RESOURCES

Cultural resource surveys were performed by James A. Truesdale. The consultant recommends clearance of the project as it is presently staked.

E. UTE TRIBAL REGULATIONS

(1). Prior to commencing surveys or construction on the U&O Indian Reservation the operator, and any of its sub-contractors, shall acquire access permits and business permits from the Ute Indian Tribe.

(2). Prior to the commencement of construction, the operator shall notify the Ute Tribal Department of Energy and Minerals of the date construction shall begin.

7.0 UNAVOIDABLE ADVERSE IMPACTS

A. SURFACE ALTERATIONS

None of the adverse impacts listed in 5.0 above can be avoided in a practical manner except those which are mitigated in item 6.0 above and those specified in BLM's 13 point surface use plan.

B. RELATIONSHIP BETWEEN SHORT-TERM USE OF THE ENVIRONMENT VS LONG TERM PRODUCTIVITY.

1. Short Term: (Estimated 20 years) A total loss of production on the land and the associated environmental impacts will continue to influence the surrounding area for the productive life of the well.
2. Long Term: Standard policies provide for rehabilitation of wellsite and rights-of-ways. After the land is rehabilitated, it is not expected to return to its original productive capability. Normally, there will be a permanent scar left on the landscape.

C. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT

Oil and Gas are non-renewable resources, once they have been removed they can never be replaced.

8.0 CUMULATIVE IMPACTS

A. FULL DEVELOPMENT

Each additional well drilled for development increases the soil erosion potential, reduces wildlife habitat and grazing, increases potential soil and geologic pollution resulting from salt loading, reduces the soil's potential to recover, and increases the potential of water pollution from produced waters and hydro-carbons. Therefore, strict conformance with the mitigation measures and recommendations in this document is emphasized to minimize the adverse environmental impacts.

9.0 NEPA COMPLIANCE

A. RESEARCH/DOCUMENTATION

Based on available information, 9-25-97, the proposed location in the following areas of environmental impacts has been cleared:

 X Yes No Listed Threatened & Endangered
species

<u>X</u>	Yes	<u> </u>	No	Critical wildlife habitat
<u>X</u>	Yes	<u> </u>	No	Historical and cultural resources
<u>X</u>	Yes	<u> </u>	No	Floodplain
<u>X</u>	Yes	<u> </u>	No	Wetlands
<u>X</u>	Yes	<u> </u>	No	Riparian

10.0 REMARKS

A. SURFACE PROTECTION/REHABILITATION

All essential surface protection and rehabilitation requirements are specified above.

11.0 RECOMMENDATIONS

A. APPROVAL/DISAPPROVAL

We recommend approval of the proposed action as outlined in item 1.0 above.

9-25-97
Date

Dale A. Hanberg
Representative - BIA Land
Operations, Uintah and Ouray
Agency

12.0 DECLARATION

A. APPROVAL

It has been determined that the proposed action is not a federal action significantly affecting the quality of the environment as it would require the preparation of an environmental impact statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (C).

9/30/97
Date

[Signature]
Superintendent,
Uintah and Ouray Agency

14.0 CONSULTATION

A. REPRESENTATIVES/ORGANIZATION

Dale Hanberg- BIA
Ed Trotter-Petroglyphs
Lonnie Nephi-UTEM
Greg Darlington-BLM

Steve Wall=Petroglyphs

B:\EAPet20.¹⁴~~13~~

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company Inc.

Well Name & Number: Ute Tribal 20-14

API Number: 43-013-31982

Lease Number: 14-20-H62-3515

Location: SESW Sec. 20 T.5S R. 3W

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water zone, identified at 582 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to the top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (801) 789-7077
Petroleum Engineer

Wayne P. Bankert (801) 789-4170
Petroleum Engineer

Jerry Kenzcka (801) 781-1190
Petroleum Engineer

BLM FAX Machine (801) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

SURFACE CONDITIONS OF APPROVAL

The Surface Use Conditions of Approval all come from the Bureau of Indian Affairs Concurrence Memorandum and Site Specific Environmental Analysis.

The Ute Tribe Energy and Mineral Department is to be notified 48 hours prior to construction. A Tribal Technician is to monitor construction.

Seventy-five (75) foot wide Rights-Of-Way (ROWs) corridor shall be granted for the following:

Access roads which shall have constructed travel width limited to 22 feet within a 30 foot allocation of the ROW, except as granted for sharp curves or intersections.

Surface pipelines shall be limited to 13 feet of the ROW. The pipeline will be constructed to lay on the soil surface, and the ROW for the pipeline will not be bladed or cleared of vegetation.

Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the ROW. Where pipelines cross country between stations, they shall be welded in place at wellsites or on roads and then pulled into place with suitable equipment. Traffic will be restricted along these areas so that the pipeline ROW will not be used as an access road.

Buried pipelines shall be buried a minimum of 3 feet below the soil surface within an area of disturbance limited to 15 feet wide, and construction will be monitored by a Tribal Technician.

Buried pipelines adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Any additional buried pipelines shall be parallel to the outer side of the first buried pipeline and shall be constructed as close to the first pipeline as safety requirements allow.

After construction of the buried pipeline is completed the disturbed area of the right-of-way shall be contoured to blend into the natural landscape and it shall be reseeded with desirable vegetation as recommended by the BIA. Between September 15 and November 1 of the year following pipeline construction all disturbed areas shall be reseeded with perennial vegetation according to BIA, or Ute Tribe specifications.

Petroglyph will assure the Ute Tribe that any/all contractors and subcontractors have acquired a Tribal Business License and have access permits prior to construction.

All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.

All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

The Ute Tribe Energy & Mineral Department shall be consulted if cultural remains from subsurface deposits are exposed or identified during construction.

Before the site is abandoned, the company will be required to restore the well site and ROWs to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the cuttings and mud, etc. left in them to be buried will be buried a minimum of three feet below the surface of the soil.

A closed production system will be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

Firewood shall be stockpiled at convenient locations near the wellsite and along the access road.

Upon completion of the project approved under this Application for Permit to Drill and Right-of-way, the Ute Tribe Energy & Minerals Resources Department will be notified by Petroglyph Operating Company so that a Tribal Technician can verify Affidavit of Completion's.

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

Name of Company: PETROGLYPH OPERATING

Well Name: UTE TRIBAL 20-14

Api No. 43-013-31982

Section 20 Township 5S Range 3W County DUCHESNE

Drilling Contractor UNION

Rig # 16

SPUDDED:

Date 2/17/98

Time

How ROTARY

Drilling will commence

Reported by CHUCK WHITE

Telephone # 1-435-722-2531

Date: 2/17/98 Signed: JLT

Form 7

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING**REPORT OF WATER ENCOUNTERED DURING DRILLING**

1. Well name and number: Ute Tribal 20-14
API number: 43-013-31982
2. Well Location: QQ SESW Section 20 Township 5S Range 3W County Duchesne
3. Well Operator: Petroglyph Operating Company, Inc.
Address: P.O. Box 607
Roosevelt, UT 84066 Phone: (435) 722-2531
4. Drilling Contractor: Union Drilling
Address: P.O. Drawer 40
Buckhannon, WV 26201 Phone: (304) 472-4610
5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
<u>0</u>	<u>290^{CS}</u>	<u>Dry</u>	
<u>290</u>	<u>527</u>	<u>Dust</u>	
<u>527</u>	<u>668</u>	<u>Hole Damp</u>	
<u>668</u>	<u>1290^{Block}</u>	<u>Damp</u>	<u>No sample</u>
	<u>3073</u>	<u>1 gal per min</u>	

6. Formation tops: _____

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 2-24-98
Name & Signature Deanna Bell Title: Operations Coordinator

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

OPERATOR Petroglyph Operating Company, Inc.
ADDRESS P. O. Box 607
Roosevelt, UT 84066

OPERATOR ACCT. NO. N3600

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	09397		43-013-31982	Ute Tribal 20-14	SESW	20	5S	3W	Duchesne	2/18/98	
WELL 1 COMMENTS:											
CONFIDENTIAL Entity added 4-17-98. (Common Tank) <i>LC</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group of unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Deanna Bell
Signature Deanna Bell
Operations Coordinator 3/5/98
Title Date
Phone No. (435) 722-2531

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE
(See other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
(Expires August 31, 1985)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. a. TYPE OF WELL: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other <input type="checkbox"/>		7. UNIT AGREEMENT NAME 14-20-H62-4650	
b. TYPE OF COMPLETION: New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Reserv. <input type="checkbox"/> Other <input type="checkbox"/>		8. FARM OR LEASE NAME	
2. NAME OF OPERATOR PETROGLYPH OPERATING COMPANY, INC.		9. WELL NO. Ute Tribal 20-14	
3. ADDRESS OF OPERATOR P.O. BOX 607, ROOSEVELT, UT 84066 (435) 722-2531		10. FIELD AND POOL, OR WILDCAT Antelope Creek	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 885' FSL 2000' FWL At top prod. interval reported below At total depth 6157' RTD		11. SEC., T., R., M., OR BLOCK AND 1 SURVEY OR AREA SESW Sec. T5S-R3W	
15. DATE SPUDDED 2/17/98		16. DATE T.D. REACHED 2/23/98	
20. TOTAL DEPTH, MD & TVD 6157' TD		21. PLUG BACK T.D., MD & TVD 6081' PBTD	
24. PRODUCING INTERVAL(S) OF THIS COMPLETION -- TOP, BOTTOM, NAME (MD AND TVD)* Green River B6.3, B8, C4, C5.2, C6.1, D3.3		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Ray to surface, Density-Compensated Neutron Porosity, AIT (normal suite)		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)			
Casing Size		Weight, lb./ft.	
8-5/8"		24	
5-1/2"		15.5	
Depth Set (MD)		Hole Size	
269'		12-1/4"	
6129'		7-7/8"	
Cementing Record		Amount Pulled	
165 sxs Class G			
125 sxs Highfill, 340 sxs Thixotropic			
29. LINER RECORD			
Size		Top	
Bottom (MD)		Sacks Cement*	
Screen (MD)		Size	
2-7/8"		4962'???	
30. TUBING RECORD			
Size		Depth Set (MD)	
2-7/8"		4962'???	
Packer Set (MD)			
31. PERFORATION RECORD (Interval, size and number)			
CONFIDENTIAL			
D3.3 5102-06' (16 holes) C6.1 4853-57' (16 holes) C5.2 4748-52' (16 holes) C4 4681-85' (16 holes) B8 4354-64' (40 holes)			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
Depth Interval (MD)		Amount and Kind of Material Used	
5044-47'		6000 gals Boragel 30, 8000# 20/40 prop	
4853-57'		11374 gals Boragel 30, 29200# 20/40 prop	
4748-52'		9303 gals Boragel 30, 11500# 20/40 prop	
4681-85'		11374 gals Boragel 30, 32500# 20-40 prop	
4354-64'		18274 gals Boragel 30, 75000# 20/40 prop	
33. PRODUCTION			
Date First Production 3/27/98		Production Method (Flowing, gas lift, pumping - size and type of pump) 2 1/2" x 1-3/4" x 16' 40 ring PA pump	
Well Status (Producing or shut-in) producing		WATER - BBL 40	
DATE OF TEST 4/16/98		HOURS TESTED 24	
CHOKE SIZE		PROD/N FOR TEST PERIOD	
OIL - BBL. #		GAS - MCF. 125	
FLOW. TUBING PRESS.		CASING PRESSURE 1000	
CALCULATED 24 HR. RATE		OIL - BBL.	
GAS - MCF.		WATER - BBL.	
OIL GRAVITY - API (CORR.)			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold, used for fuel			
TEST WITNESSED BY Dave Schreiner			
35. LIST OF ATTACHMENTS None			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			

Signed

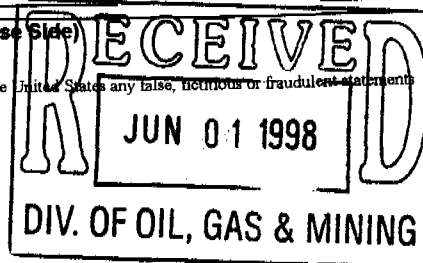
Donna Bell

Title Operations Coordinator

Date 5/11/98

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly or willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof, cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Ute Tribal 20-14						
B Marker	4022					
X Marker	4514					
Douglas Creek	4646					
B Limestone	5028					
Castle Peak	5588					
Basal Carbonate	6006					
		CONFIDENTIAL				

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
14-20-H62-3515

6. If Indian, Allottee or Tribe Name
Ute Indian Tribe

7. If Unit or CA, Agreement Designation
14-20-H62-4650

8. Well Name and No.
Ute Tribal 20-14

9. API Well No.
43-013-31982

10. Field and Pool, or Exploratory Area
Antelope Creek

11. County or Parish, State
Duchesne County, UT

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Petroglyph Operating Company, Inc.

3. Address and Telephone No.
P.O. Box 607, Roosevelt, UT 84066 (435) 722-2531

4. Location of Well (Footage, Sec., T., R., or Survey Description)
**885' FSL 2000' FWL
SESW Sec. 20-T5S-R3W**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other - Convert to Injector
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Petroglyph Operating Company, Inc. has submitted an application for a UIC permit to convert the Ute Tribal 20-14 from a producing well to an injection well under the EPA Area Permit #UT2736-00000 within the Antelope Creek Waterflood Project Area located in Duchesne County, Utah.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

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DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct

Signed *Mark Smith* Title Operations Coordinator

Date 3-7-00

(This space for Federal or State official use)

Approved by _____ Title _____

Date _____

Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter in its jurisdiction.

*See Instruction on Reverse Side

UTE TRIBAL # 20-14
Wellbore Diagram

DATE: 01-12-2000

AFTER CONVERSION

WELL HISTORY:

02-17-98 SPUDDED WELL
03-27-98 FIRST PRODUCTION

03-18-98 B 6.3 ZONE
PERFS, 4226 TO 4232, 4SPF
FRAC'ED, ISIP 2212 PSI.

03-16-98 B 8 ZONE
PERFS, 4354 TO 4364, 4SPF
FRAC'ED, ISIP 2990 PSI.

03-14-98 C 4 ZONE
PERFS, 4681 TO 4685, 4SPF
FRAC'ED, ISIP 2260 PSI.

03-13-98 C 5.2 ZONE
PERFS, 4748 TO 4752, 4SPF
SCREENED OUT NO VALID
ISIP.

03-13-98 C 6.1 ZONE
PERFS, 4853 TO 4857, 4SPF
FRAC'ED, ISIP 2621 PSI.

03-12-98 D 1 ZONE
PERFS, 5044 TO 5047, 4SPF
SCREENED OUT NO VALID ISIP

03-11-98 D 3.3 ZONE
PERFS, 5102 TO 5106, 4SPF
TESTED WGT. CIBP @ 5088'

Petroglyph Operating Co., Inc.

Ute Tribal # 20-14

885' FSL AND 2000' FWL

SE SW SEC. 20-55-3W

Antelope Creek Field

Duchesne Co, Utah

LEASE # 14-20-1462-3515

API# 49 012 31992

GL: 6467'
KB: 6477'

← Surface Hole Size 12 1/4"

8 7/8" 24# Surface Csg @
269' KB Cmt'd w/ 165 SXS

← Hole Size: 7 7/8" Bit.

← Cement Tops:
1st Stage: 2600'

← 5 1/2" 15.5# CSG @ 6129'
CMT'd W/ 465 SXS. 1st Stage

← 130 JTS. OF 2 3/8" 4.7#
TUBING SET ON PACKER
AT 4160'

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← CIBP @ 5088'

PBTD @ 5088'
TD @ 6157' KB

(Not to Scale)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

5. Lease Serial No.
1420H623515

6. If Indian, Allottee or Tribe Name
UTE INDIAN TRIBE

7. If Unit or CA/Agreement, Name and/or No.
1420H624650

8. Well Name and No.
UTE TRIBAL 20-14

9. API Well No.
43-013-31982

10. Field and Pool, or Exploratory
ANTELOPE CREEK

11. County or Parish, and State
DUCHESNE COUNTY, UT

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
PETROGLYPH OPERATING COMPANY, Contact: MICHEAL SAFFORD
E-Mail: msafford@petroglyphenenergy.com

3a. Address
P.O. BOX 607
ROOSEVELT, UT 84066

3b. Phone No. (include area code)
Ph: 435.722.2531
Fx: 435.722.9145

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 20 T5S R3W Mer SESW

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> WRK
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The above referenced well was acidized and reperforated to improve production starting 2/27/2001 and was put back to production on 3/5/2001.

Zones Perforated
4222-36; 4341-68, 4371-82, 4738-44, 4746-56, 4835-39, 4846-50; 4 SPF 120 deg phasing

Zones acidized
4835-57 treated with 500 gallons 15% HCL and additives.
4738-56 treated with 750 gallons 15% HCL and additives.
4681-85 treated with 500 gallons 15% HCL and additives.
4341-82 treated with 2000 gallons 15% HCL and additives.
4222-36 treated with 750 gallons 15% HCL and additives.

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JUN 22 2001

DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #4736 verified by the BLM Well Information System
For PETROGLYPH OPERATING COMPANY,, sent to the Vernal

Name (Printed/Typed) MICHEAL SAFFORD

Title COORDINATOR

Signature

Date 06/05/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****



Petroglyph Energy, Inc.

P.O. Box 1839

Hutchinson, KS 675041839

(316) 665-8500

UTE TRIBAL 20-14

Completion Chronological Report

Page 1 of 3

Well Name : UTE TRIBAL 20-14

Well User ID : 1221

AFE # : 41929

Operator : PETROGLYPH OPERATING COMPANY

WI : 0

NRI : 0

Loc :

STR : 20 -5S -3W

County : DUCHESNE, UT

API Code : 4301331982

Field : ANTELOPE CREEK

Contractor :

AFE Type : Workover

Spud Date : 2/18/1998

Rig Rel Date :

Total Depth : 6157 ft.

Comp Date : 3/24/1998

PBTD : 6078 ft.

Job Purpose :

Completions Detail Report

Date : 2/27/2001

Activity: MIRU Rig

Days On Completion : 1

Rpt Summary :

Report Detail : 13:00 to 16:00 - MIRU -

16:00 to 18:00 - Pull rods - Pump 30 bbls wtr dwn csg unseat pump and flush tbq w/ 20 bbls wtr @ 250°. Reseat pump fill tbq w/ 15 bbls wtr and test to 3000 psi. POOH w/ rods and pump SDFN.

18:00 to 19:00 - Travel - Crew travel.

Date : 2/28/2001

Activity: Perforate

Days On Completion : 2

Rpt Summary :

Report Detail : 06:00 to 07:00 - Travel - Crew travel.

07:00 to 09:30 - POOH - ND wellhead release TA NU BOP and POOH w/ tbq.

09:30 to 12:30 - GIH - RIH w/ scraper and tag sd top @ 5023', POOH.

12:30 to 16:30 - Perforate - B6.3 4222-36', B8 4341-68', 4371-82', C5.2 4738-44', 4746-56', C6.1 4835-39', 4846-50' 4-spf 120° phasing.

16:30 to 18:30 - GIH - w/ bp, pkr and tbq, isolate B8 zone and try to swab. Made 1 run recovered 7 bbls wtr, the second run couldn't get through heavy wax at 3000', SDFN.

18:30 to 19:30 - Travel - Crew travel.

Date : 3/1/2001

Activity: Acidize

Days On Completion : 3

Rpt Summary :

Report Detail : 06:00 to 07:00 - Travel - Crew travel.

07:00 to 10:00 - Swab - Pump 30 bbls wtr dwn csg to get swab dwn tbq to test B8 zone. Made 3 runs recovered 4 BW and 6 BO. Circulate 10' of fill off of plug to retrieve, used 176 bbls wtr.

10:00 to 15:00 - Acidize - Isolate C6 4835-57', C5 4738-56', C4 4681-85', B8 4341-82', B6 4222-36' and treat w/ 15% HCL + add. Total load 236 bbls

15:00 to 16:00 - POOH - w/ tbq and tools.

16:00 to 18:00 - GIH - w/ production tbq and circulate fill from 5012' to 5055', lost 295 bbls wtr. SDFD.

18:00 to 19:00 - Travel - Crew travel.

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DIVISION OF
OIL, GAS AND MINING



Petroglyph Energy, Inc.

P.O. Box 1839

Hutchinson KS 67504-1839

Phone : (316) 665-8500 Fax : (316) 665-8577

Completion Chron Report

UTE TRIBAL 20-14

Completion Chronological Report

Page 2 of 3

Well Name : UTE TRIBAL 20-14

Well User ID : 1221

Operator : PETROGLYPH OPERATING COMPANY

Loc : STR: 20 -5S -3W

County : DUCHESNE, UT APICode : 4301331982

Field : ANTELOPE CREEK

Contractor :

Spud Date : 2/18/1998

Rig Rel Date :

Comp Date : 3/24/1998

AFE # : 41929

WI : 0

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AFE Type : Workover OIL, GAS AND MINING

Total Depth : 6157 ft.

PBTD : 6078 ft.

Date : 3/2/2001

Activity: Swabbing

Days On Completion : 4

Rpt Summary :

Report Detail : 06:00 to 07:00 - Travel - Crew travel.

07:00 to 08:00 - GIH - PU 5 jts and tag fill @ 5055', POOH w/ 5 jts EOT @ 4902'.

08:00 to 15:00 - Swab - Made 21 runs recovered 122 bbl fluid, the final run had 10% oil cut w/ heavy sand. IFL 2700', FFL 3700'.

15:00 to 16:30 - POOH - Tag sand @ 5022', (made 33' of sand). POOH w/ tbg and LD TA.

16:30 to 18:00 - GIH - w/ tbg to 4900' and prepare to foam to clean well up.

18:00 to 19:00 - Travel - Crew travel.

Date : 3/3/2001

Activity: Foaming

Days On Completion : 5

Rpt Summary :

Report Detail : 06:00 to 07:00 - Travel - Crew travel.

07:00 to 15:30 - Foaming - RU air foam unit and circulate well until returns were sand free.

15:30 to 17:00 - Swab - LD 5-jts tbg and made 3 swab runs. IFL 4000', FFL 4000', recovered 15 bbls wtr from swabbing, 40 bbls wtr and 10 bbls oil from circulating w/ air unit.

17:00 to 18:00 - Travel - Crew travel.

Date : 3/5/2001

Activity: Run tubing and rods

Days On Completion : 7

Rpt Summary :

Report Detail : 06:00 to 07:00 - Travel - Crew travel.

07:00 to 08:30 - Swab - Made 4 runs recovered 20 bbls wtr w/ trace of oil. IFL 4000', FFL 4000', cups had light sand.
08:30 to 12:00 - POOH - Tag sd @ 5050 and POOH w/ tbg. RIH w/ production tbg set TA in 12,000 tension and NL wellhead.

12:00 to 16:30 - Run rods - Flush tbg w/ 20 bbls wtr and RIH w/ pump & rods. Seat pump fill tbg w/ 19 bbls wtr and test to 800 psi. RDMOL.

16:30 to 17:30 - Travel - Crew travel.

Casing

DateIn	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	HoleDiam	TD
2/17/1998	281	0	2. Surface	8.625	24	J-55		12.25	269
2/23/1998	6129	0	4. Production	5.5	15.5	J-55		7.875	6157

Well Perforation History

(This shows only the perforations for this project or day)

Date	Formation	Perf Status	Upper Perf	Lower Perf	Sht / Ft	Description:
2/28/2001	B6.3	Open	4222	4236	4	
2/28/2001	B8	Open	4341	4368	4	

6/4/2001 11:20 AM

PETROGLYPH**Petroglyph Energy, Inc.**

P.O. Box 1839

Hutchinson KS 67504-1839

Phone : (316) 665-8500 Fax : (316) 665-8577

Completion Chron Report**UTE TRIBAL 20-14****Completion Chronological Report**

Page 3 of 3

Well Name : UTE TRIBAL 20-14**Well User ID : 1221****AFE # : 41929****Operator : PETROGLYPH OPERATING COMPANY****WI : 0****NRI : 0****Loc :****STR : 20 -5S -3W****County : DUCHESNE, UT****API Code : 4301331982****Field : ANTELOPE CREEK****Contractor :****AFE Type : Workover****Spud Date : 2/18/1998****Rig Rel Date :****Total Depth : 6157 ft.****Comp Date : 3/24/1998****PBTD : 6078 ft.**

2/28/2001	B8	Open	4371	4382	4
2/28/2001	C5.2	Open	4738	4744	4
2/28/2001	C5.2	Open	4746	4756	4
2/28/2001	C6.1	Open	4835	4839	4
2/28/2001	C6.1	Open	4846	4850	4

RECEIVED**JUN 22 2001****DIVISION OF
OIL, GAS AND MINING**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER Water Injection Well

2. NAME OF OPERATOR:
Petroglyph Operating Company, Inc.

3. ADDRESS OF OPERATOR: P. O. Box 607 CITY Roosevelt STATE UT ZIP 84066 PHONE NUMBER: (435) 722-5304

4. LOCATION OF WELL

FOOTAGES AT SURFACE: **885' FSL 2000' FWL**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SESW 20 T5S R3W**

5. LEASE DESIGNATION AND SERIAL NUMBER:
1420H623515

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Ute Indian Tribe

7. UNIT or CA AGREEMENT NAME:
1420H624650

8. WELL NAME and NUMBER:
Ute Tribal 20-14

9. API NUMBER:
4301331982

10. FIELD AND POOL, OR WILDCAT:
Antelope Creek

COUNTY: **Duchesne**

STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <u>2/1/2007</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

First date of Injection February 1, 2007

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Steve Wall

TITLE Manager

SIGNATURE Steve Wall

DATE 2/1/2007

(This space for State use only)

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FEB 09 2007

DIV. OF OIL, GAS & MINING



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

FEB - 6 2007

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Steve Wall, District Manager
Petroglyph Energy, Inc.
4116 West 3000 So. Ioka Lane
Roosevelt, UT 84066

43.013.31982
5S 3W 20
RE: Additional Well to Antelope Creek Area Permit
UIC Permit No. UT20736-00000
Well ID: UT20736-04540
Ute Tribal No.20-14, Duchesne County, Utah

Dear Mr. Wall:

Thank you for submitting information pertaining to the newly constructed or converted Ute Tribal 20-14 enhanced recovery injection well to the Region 8 Ground Water Program office of the Environmental Protection Agency (EPA). The "Prior To Commencing Injection" requirements for the Ute Tribal 20-14 injection well required well owner and operator Petroglyph Energy, Inc. to submit the following information to the Director:

1. A successful mechanical integrity test (MIT) demonstrating Part I Internal MI,
2. Pore pressure calculation of the proposed injection zone, and
3. Completed EPA Form No. 7520-12.

All required information has been submitted, and has been reviewed and approved by the EPA. Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal 20-14 enhanced recovery injection well under the conditions of the Authorization for Additional Well and UIC Area Permit UT20736-00000 as modified.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
FEB 09 2007
DIV. OF OIL, GAS & MINING

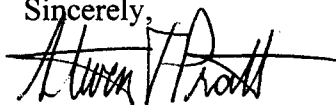
As of this approval, responsibility for permit compliance and enforcement is transferred to the Region 8 UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well and UIC Permit number on all correspondence regarding this well.

Technical Enforcement Program - UIC
U.S. EPA Region 8, Mail Code 8ENF-UFO
1595 Wynkoop Street
Denver, Colorado 80202-1129

The Director has determined that the maximum allowable surface injection pressure (MAIP) for the Ute Tribal 20-14 is **1545** psig. Please be reminded that it is the responsibility of the owner/operator to be aware of, and to comply with, all conditions of Authorization for Additional Well UT20736-04540 and EPA UIC Area Permit UT20736-00000 and relevant modifications as issued.

If you have any questions regarding this Authorization, please call Dan Jackson of my staff at (303) 312-6155. For questions regarding notification, testing, monitoring, reporting or other Permit requirements, the UIC Technical Enforcement Program may be reached by calling (800) 227-8917.

Sincerely,



Steven J. Pratt
Director
Ground Water Program

cc: Maxine Natchees, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Ronald Groves, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

FOR RECORD
OF
OFFICE
JUL 1 1994
UIC

Irene Cuch, Councilwoman
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Richard Jenks, Jr., Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Smiley Arrowchis, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Francis Poowegup, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Chester Mills, Superintendent
BIA - Uintah & Ouray Indian Agency
P.O. Box 130
Fort Duchesne, UT 84026

Mr. Kenneth Smith
Executive Vice President and Chief Operating Officer
Petroglyph Energy, Inc.
555 S. Cole Blvd
Boise, ID 83709

Shawn Chapoose, Director
Land Use Department
Ute Indian Tribe
P.O. Box 460
Fort Duchesne, UT 84026

Gil Hunt
Technical Services Manager
Utah Division of Oil, Gas, and Mining
1594 West North Temple - Suite 1220
Salt Lake City, UT 84114-5801

Fluid Minerals Engineering Office
BLM - Vernal Office
170 South 500 East
Vernal, UT 84078

Lynn Becker, Director
Energy and Minerals Department
Ute Indian Tribe
P.O. Box 70
Ft. Duchesne, UT 84026

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection Conversion</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H623515
2. NAME OF OPERATOR: Petroglyph Operating Company, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P. O. Box 607 CITY <u>Roosevelt</u> STATE <u>UT</u> ZIP <u>84066</u>		7. UNIT or CA AGREEMENT NAME: 1420H624650
4. LOCATION OF WELL FOOTAGES AT SURFACE: 885' FSL 2000' FWL SESW Sec. 20, T5S, R3W		8. WELL NAME and NUMBER: Ute Tribal 20-14
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 20 R5S R3W		9. API NUMBER: 4301331982
COUNTY: Duchesne		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
STATE: UTAH		

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <u>2/2/2007</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry is serving notice that Petroglyph Operating Company, Inc. (POCI) plans to convert the Ute Tribal 20-14 to an injection well from a producing well. This work is being performed under the area UIC permit UT 20736-0661. POCI has obtained approval from EPA. After the conversion is complete, POCI will submit the necessary information to the EPA to obtain approval to begin injection operations.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
FEB 23 2007
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Steve Wall</u>	TITLE <u>Manager</u>
SIGNATURE <u>Steve Wall</u>	DATE <u>2/2/2007</u>

(This space for State use only)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection Conversion</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H623515
2. NAME OF OPERATOR: Petroglyph Operating Company, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P. O. Box 607 CITY <u>Roosevelt</u> STATE <u>UT</u> ZIP <u>84066</u>		7. UNIT or CA AGREEMENT NAME: 1420H624650
PHONE NUMBER: (435) 722-5304		8. WELL NAME and NUMBER: Ute Tribal 20-14
4. LOCATION OF WELL FOOTAGES AT SURFACE: 885' FSL 2000' FWL SESW Sec. 20, T5S, R3W QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 20 R5S R3W		9. API NUMBER: 4301331982
		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
		COUNTY: Duchesne STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well has been converted from production to injection to support the ongoing secondary water flood currently active in the Antelope Creek Field. The Rods and 2 7/8" tubing have been removed and an injection 2 3/8" J-55 4.7# injection string has been installed with packer set at 4115' +/- KB. Packer fluid has been circulated in the csg and a successful MIT conducted. Drilled out CIBP @ 5088' and no additional down hole changes.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
FEB 23 2007
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Steve Wall</u>	TITLE <u>Manager</u>
SIGNATURE <u>Steve Wall</u>	DATE <u>2/2/2007</u>

(This space for State use only)



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8**

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

Ref: 8P-W-GW

APR 20 2007

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Steve Wall, District Manager
Petroglyph Energy, Inc.
4116 West 3000 So. Ioka Lane
Roosevelt, UT 84066

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

43.013.31982

55 3W 20

RE: Authorization to Inject

UIC Permit No. UT20736-00000

Well ID: UT20736-04540

Ute Tribal 20-14, Duchesne County, Utah

Dear Mr. Wall:

Thank you for submitting information pertaining to the newly completed Ute Tribal 20-14 enhanced recovery injection well to the Region 8 Ground Water Program office of the Environmental Protection Agency (EPA). The "Prior to Commencing Injection" requirements for the Ute Tribal 20-14 injection well required well owner and operator Petroglyph Energy, Inc. to submit the following information to the Director:

1. A successful mechanical integrity test (MIT) demonstrating Part I Internal MI,
2. Pore pressure calculation of the proposed injection zone, and
3. A completed EPA Form No. 7520-12.

All required information has been submitted, and has been reviewed and approved by the EPA. Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal 20-14 enhanced recovery injection well under the conditions of the Authorization for Additional Well and UIC Area Permit UT20736-00000 as modified.

As of this approval, responsibility for permit compliance and enforcement is transferred to the Region 8 UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well and UIC Permit number on all correspondence regarding this well.

Technical Enforcement Program - UIC
U.S. EPA Region 8, Mail Code 8ENF-UFO
1595 Wynkoop Street
Denver, CO 80202-1129

The Director has determined that the maximum allowable surface injection pressure (MAIP) for the Ute Tribal 20-14 is 1545 psig. Please be reminded that it is the responsibility of the owner/operator to be aware of, and to comply with, all conditions of Authorization for Additional Well UT20736-04540 and EPA UIC Area Permit UT20736-00000 and relevant modifications as issued.

If you have any questions regarding this Authorization, please call Dan Jackson of my staff at (303) 312-6155. For questions regarding notification, testing, monitoring, reporting or other Permit requirements, the UIC Technical Enforcement Program may be reached by calling (800) 227-8917.

Sincerely,



Steven J. Pratt, P.E. (inactive)
Director, Ground Water Program

Cc: Mr. Kenneth Smith
Executive Vice President and Chief Operating Officer
Petroglyph Energy, Inc.
555 S. Cole Blvd
Boise, ID 83709

Maxine Natchees, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Ronald Groves, Councilman
Uintah & Ouray Business Committee
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Irene Cuch, Councilwoman
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Shawn Chapoose, Director
Land Use Department
Ute Indian Tribe
P.O. Box 460
Fort Duchesne, UT 84026

BIA - Uintah & Ouray Indian
Agency
P.O. Box 130
Fort Duchesne, UT 84026

Lynn D. Becker
Director, Energy and Minerals
Department
Ute Indian Tribe
P.O. Box 70
Ft. Duchesne, UT 84026

Gil Hunt
Associate Director
Utah Division of Oil, Gas, and Mining
1594 West North Temple - Suite 1220
Salt Lake City, UT 84114-5801

Fluid Minerals Engineering Department
BLM - Vernal District
170 South 500 East
Vernal, UT 84078